

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 22 (CHURCHVILLE ROAD) AND THOMAS RUN ROAD/SHUCKS ROAD IN HARFORD COUNTY. THE MODIFICATION INCLUDES ADDING THE EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THOMAS RUN ROAD AND SHUCKS ROAD.

MD 22 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA 5 PHASE, FULLY-TRAFFIC ACTUATED MODE. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT-TURN FOR THE EASTBOUND APPROACH OF MD 22. THE THROUGH MOVEMENTS FOR MD 22 OPERATE CONCURRENTLY. THOMAS ROAD ANS SHUCKS ROAD APPROACHES OPERATE CONCURRENTLY.

CONTACT PERSONS:

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EQUIPMENT LIST A

EQUIPMENT TO BE SUPPLIED BY THE S.H.A.

ITEM NOS.	QUANTITY	SPEC. SECTION	DESCRIPTION
9089	85 S.F.	813	Flat sheet aluminum to consist of: <ul style="list-style-type: none"><li>- Two (2) 36"x42" R10-I2 - LEFT TURN YIELD ON GREEN sign, mast-arm mounted.</li><li>- One (1) associated shield assembly "WEST, MD 22, RIGHT ARROW" (24"x51"), pole mounted with hardware.</li><li>- One (1) associated shield assembly "EAST, MD 22, RIGHT ARROW" (24"x51"), pole mounted with hardware.</li><li>- One (1) associated shield assembly "WEST, MD 22, LEFT ARROW" (36"x75"), pole mounted with hardware.</li><li>- One (1) associated shield assembly "EAST, MD 22, LEFT ARROW" (36"x75"), pole mounted with hardware.</li></ul>

EQUIPMENT LIST B

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NOS.	QUANTITY	SPEC. SECTION	DESCRIPTION
1001	1 EACH	104	Maintenance of traffic.
2002	3 C.Y.	205	Test pit excavation.
5001	3 EACH	549	Furnish and install heat applied permanent preformed thermoplastic pavement marking arrow.
5003	1 EACH	549	Remove existing pavement marking arrow.
8011	36 EACH	814	Furnish and install 12-inch vehicular traffic signal head section (POLYCARBONATE and black-faced).
8019	9 EACH	814	Furnish and install 8-inch vehicular traffic signal head section (POLYCARBONATE and black-faced).
8048	1 EACH	-	Remove and dispose of existing material and equipment per assignment.
8058	18 L.F.	810,950	Furnish and install wood sign support 4"x4".
8074	64 S.F.	813	Install ground mounted sign.
8075	21 S.F.	813	Install overhead sign.
8084	10 L.F.	810,950	Furnish and install electrical cable - 5 conductor (No.14 AWG).
8085	775 L.F.	810,950	Furnish and install electrical cable - 7 conductor (No.14 AWG).

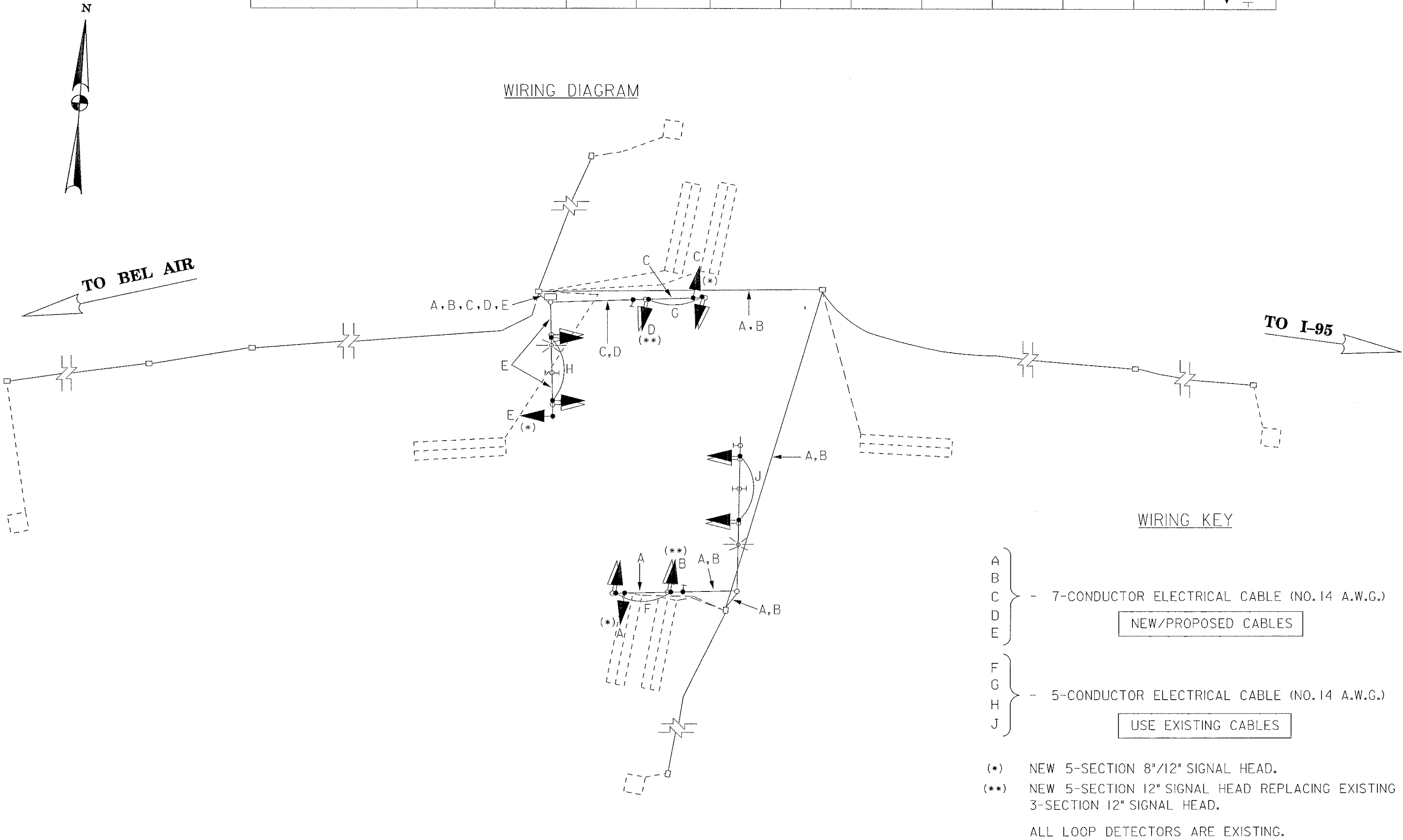
EQUIPMENT LIST C

EQUIPMENT TO BE REMOVED AND RETURNED TO S.H.A.

All materials to be removed by the Contractor shall become the property of the Contractor.

PHASE CHART

	1(*)	2	3	4	5	6(*)	7(**)	8	9(*)	10(**)	11	
Phase 1 & 6	◀G-G	◀G-G	G	R	R	R	R	R	R	R	R	
1 & 6 Change	THE CONTROLLER MAY SKIP TO PHASE 2 & 6											
Phase 2 & 6	G	G	G	G	G	R	R	R	R	R	R	
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	R	R	
Phase 3 & 7	R	R	R	R	R	◀G-R	◀G-R	R	◀G-R	◀G-R	R	
3 & 7 Change	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8											
Phase 3 & 8	R	R	R	R	R	◀G-G	◀G-G	G	R	R	R	
3 & 8 Change	R	R	R	R	R	◀Y-G	◀Y-G	G	R	R	R	
Phase 4 & 7	R	R	R	R	R	R	R	R	◀G-G	◀G-G	G	
4 & 7 Change	R	R	R	R	R	R	R	R	◀Y-G	◀Y-G	G	
Phase 4 & 8	R	R	R	R	R	G	G	G	G	G	G	
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	



REVISIONS		APPROVALS	
S.H.A. NO. XX1065385 INSTALL E/P LEFT TURN PHASE FOR THOMAS RUN RD & SHUCKS RD. 4-15-2002		TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	
S.H.A. NO. H-893-501-471 RELOCATE SIGNAL IN NW QUADRANT DUE TO GEOMETRIC CHANGES 5-17-1989		ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	
S.H.A. NO. H-893-501-471 REBUILD EXISTING SIGNAL 2-25-1988		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
S.H.A. NO. H-893-501-471 RELOCATE SIGNAL IN NW QUADRANT DUE TO GEOMETRIC CHANGES 5-17-1989		DIRECTOR, TRAFFIC & SAFETY	
DRAWN BY: M. KABENGLE CHECKED BY: D. DODA SCALE: NONE DATE: 3-27-2002		F.A.P. NO. - S.H.A. NO. XX1065385 COUNTY: HARFORD LOG MILE: 12002203.59	
TS NO. 265(E) T.I.M.S. NO. F-050 SHEET NO. 2 OF 2			